

//PT19A Group 3 Internet Technology Project  
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## IDEA

We want to build a microservice Web App that enables Tennis Club Members to Sign-Up, Log-In, Change their personal details and ultimately make a reservation for a tennis court.

## User Stories

1. As a [user], I want to have a Web app so that I can use it on my different mobile devices and desktop.
2. As a [user], I want to see a consistent visual appearance so that I can navigate easily, and it looks professional.
3. As an Administrator, I want to use list views so that I can explore and read my business data.
- \*4. As a [user], I want to use edit and create views so that I can maintain my business data.\*
- \*5. As a [user], I want to use the archive, delete and permanent-delete functionalities so that I can maintain my business data.\*
6. As a [user], I want to create an account so that I can get access to the Web app.
7. As a [user], I want to log-in so that I can authenticate myself.
8. As a [user], I want to edit my profile so that my data is stored securely.
9. As a [user], I want to see a calendar view with the availability of each tennis court in half day increments.
10. As a [user], I want the ability to choose a free time slot and make a reservation (which is visible to the rest of the club).

11. As a [user], I want to receive an E-Mail confirmation of my reservation/cancelation.

12. As a [user], I want to be able to view my reservations in my account.

13. As a [user], I want to be able to cancel my reservation inside the Web App.

#### **\*\*Strict Requirements\*\***

Architecture: The Web app must reflect at least three different layers on at least two tiers

(backend and frontend).

- Sensitive data: At least two different types of data elements (password, mobile number,

social security number) must be stored as securely as possible.

- Security: The two different approaches, hashing or encryption, must be implemented where

it is fitting. The communication must be secured as well.

- Views: The generic user stories must be realized with at least eight different views.

- User data: The database schema must consist of at least six entities, the profile of at least

five and the business data of at least eight attributes.

What do we need (Domain Model)

Tennis Club Member Database

-Name

-Surname

-Phone Number

-Birthdate

-EMail\_adress

-Gender

-Skill Level

-Adress

-Postal Code

-City

-Joined the Club Date

Tennis Court Database

-Court Number

-Surface

## Calendar Database

- Date

- Timeslot (morning/afternoon)

- Availability